Question Booklet | Alpha Code

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Question Booklet	
Serial Number	

Alpha Code	Serial Number	

Total Number of Questions: 100 Time: 75 Minutes

Maximum Marks: 100

## INSTRUCTIONS TO CANDIDATES

- 1. The question paper will be given in the form of a Question Booklet. There will be four versions of question booklets with question booklet alpha code viz. A, B, C & D.
- 2. The Question Booklet Alpha Code will be printed on the top left margin of the facing sheet of the question booklet.
- 3. The Question Booklet Alpha Code allotted to you will be noted in your seating position in the Examination Hall.
- 4. If you get a question booklet where the alpha code does not match to the allotted alpha code in the seating position, please draw the attention of the Invigilator IMMEDIATELY.
- 5. The Question Booklet Serial Number is printed on the top right margin of the facing sheet. If your question booklet is un-numbered, please get it replaced by new question booklet with same alpha code.
- 6. The question booklet will be sealed at the middle of the right margin. Candidate should not open the question booklet, until the indication is given to start answering.
- 7. Immediately after the commencement of the examination, the candidate should check that the question booklet supplied to him contains all the 100 questions in serial order. The question booklet does not have unprinted or torn or missing pages and if so he/she should bring it to the notice of the Invigilator and get it replaced by a complete booklet with same alpha code. This is most important.
- 8. A blank sheet of paper is attached to the question booklet. This may be used for rough work
- 9. Please read carefully all the instructions on the reverse of the Answer Sheet before marking your answers.
- 10. Each question is provided with four choices (A), (B), (C) and (D) having one correct answer. Choose the correct answer and darken the bubble corresponding to the question number using Blue or Black Ball-Point Pen in the OMR Answer Sheet.
- 11. Each correct answer carries 1 mark and for each wrong answer 1/3 mark will be deducted. No negative mark for unattended questions.
- 12. No candidate will be allowed to leave the examination hall till the end of the session and without handing over his/her Answer Sheet to the Invigilator. Candidates should ensure that the Invigilator has verified all the entries in the Register Number Coding Sheet and that the Invigilator has affixed his/her signature in the space provided.
- 13. Strict compliance of instructions is essential. Any malpractice or attempt to commit any kind of malpractice in the Examination will result in the disqualification of the candidate.

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## 007/2022

1. In a case of Acute Lymphoblastic Leukemia, the lymphoblasts demonstrated strong localized positivity with acid phosphatase.

The cells were positive for CD2 and CD7 and negative for CD19, CD24, and CD20. These blasts are most likely:

(A) Lymphoid stem cells

(B) T lymphoblasts

(C) B lymphoblasts

- (D) Undifferentiated blasts
- 2. A patient with anemia of chronic disease is most likely to have which set of laboratory test results?
  - (A) MCV decreased, serum iron decreased, serum ferritin decreased, TIBC and % saturation decreased
  - (B) MCV normal, serum iron increased, serum ferritin decreased, TIBC and % saturation decreased
  - (C) MCV normal, serum iron decreased, serum ferritin increased, TIBC and % saturation decreased
  - (D) MCV decreased, serum iron increased, serum ferritin increased, TIBC and % saturation increased
- 3. An increase in the reticulocyte count is accompanied by:
  - (A) Suppressed maturation of normoblasts in the bone marrow
  - (B) A shift to the left in the oxygen dissociation curve
  - (C) Polychromasia on the Romanovsky stained blood smear
  - (D) An increase in direct serum bilirubin
- 4. A 8-year-old boy presents with intramuscular hematomas and recurrent hemarthroses. Laboratory tests reveal normal platelet count bleeding time, and PT, but the PTT is prolonged. This condition most likely results from an abnormality involving:
  - (A) Chromosome 8

(B) Chromosome 14

(C) Chromosome 21

- (D) X Chromosome
- 5. A patient is suspected of having hemolytic anemia. Numerous spherocytes are present in the blood smear, and the reticulocyte count is 18%. What test should be done to determine whether this is an autoimmune process?
  - (A) Direct Antiglobulin Test (DAT) (B) Osmotic Fragility Test

(C) Urinalysis

- (D) Serum Bilirubin
- 6. A joint aspiration is performed on a 60 year old lady with painful swollen elbow, and a sample is sent to the laboratory. A cytocentrifuged slide is examined with polarized light shows needlelike intracellular and extracellular crystals which exhibit negative birefringence compensator. These crystals would be best identified as which of the following?

(A) Calcium pyrophosphate

(B) Cholesterol

(C) Monosodium urate

(D) Steroids

7.	fluid dehy	oracentesis is perform.  Laboratory studie drogenase 40 U/L (se 90% segmented neut.  This is an exudate.  This is a transudate.  This is a chylous fluit.  This is unlikely to be	s show a total rum = 50 u/L) rophils. Which	prote and to state	in of 4.5 g/dL stal leukocyte o ment fits most	(serum	=6 g/dL) lactate 20,000/microlitre	е	
8.	Hem	aturia with dysmorph	nic RBCs is a h	allmar	k of:				
	(A)	Renal Tuberculosis	(B)	Acu	te Glomerulon	ephritis	3		
	(C)	Chronic Renal Failu	re (D)	Ren	al Calculi				
9.	Micr	oalbuminuria is defin	ed as level of a	lbumir	n in urine at ra	ange of :			
	(A)	100-150 mg/day	(B)	150-	-200 mg/day				
	(C)	30-300 mg/day	(D)	300-	-600 mg/day				
10.	have coun	l-year-old man is ad embers vomiting abou e orthostatic hypotens t 90,000/uL, and WBC ial thromboplastin ting appropriate for this	t a liter of darl sion. His Hgb C count 10,100/ me 26.2 second	red b is 6.2 aL. H	ploody vomitus g/dL, Hct 18.3 is prothrombin	into the 8%, MC time is	e. He is found to V 74 fL, platele 12.1 seconds and	$egin{array}{c} \mathbf{c} \\ \mathbf{d} \end{array}$	
	(A)	Whole blood	(B)	Cry	oprecipitate				
	(C)	Fresh frozen plasma	(D)	Pac	ked RBC's				
11.		cipient developed a s emained afebrile. Wh Septicemia Penicillin allergy	ich of the followard (B)	wing c Gra		ost likely		1	
12.	One	unit of FRESH FI				whole	blood contains	s	
	(A)	100-150 (B)	250-400	(C)	200-250	(D)	50-150		
13.	Coor	nbs control cell consis	sts of:						
	(A)	Type O positive cells	s coated with A	nti D					
	(B)	Type O negative cell	s coated with A	Anti D					
	(C)	Type A positive cells	coated with A	nti D					
	(D)	(D) Type A negative cells coated with Anti D							
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A			5		007/2022 {P.T.O.}
	(C)	95% Ethanol	(D)	None of the above	
	(A)	50% Ethanol	(B)	70% Ethanol	
24.	Whi	ch among the following is the mo	st su	itable fixative for gastric	washings?
	(0)	100/0 MEMINIOI	(D)	80% Propanol	
	(A) (C)	95% Ethyl alcohol 100% Methanol	(B) (D)	80% Isopropyl alcohol	
23.		ch of the following fixative is <b>no</b>			membrane filter) ?
	(A)	EA 50 (B) EA 36		(C) EA 65 (D	e) EA 25
22.	Whi	ch of the following EA (Eosin Az	zure)	is preferred for non-gyna	ecological smears?
	(A) (C)	Papanicolaou stain Hematoxylin & Eosin stain	(D)	Orcein stain Shorr stain	
21.		ch among the following is the be			Barr Body ?
	(C)	Fructose syrup	(D)	Canada balsam	
	(A)	Glycerine jelly	(B)	Apathy's media	
20.		ch of the following is <b>not</b> an aqu			
	(C)	Chrome alum-gelatin	(D)	APES	
LJ.	(A)	DPX	(B)	Mayer's egg albumin	
19.		ch of the following is <b>not</b> a slide	adho		, 22222334 311
18.	Whi	ch of the following is a routinely Chloroform (B) Xylene	used		athology ?  O Cedarwood oil
	(C)	Sledge microtome	(D)	=	
17.	Whi	ch of the following microtome is Rotary microtome		r for cutting large specin Rocking microtome	nens for museum ?
	(A) (C)	Weigerts Hematoxylin	(D)	Gills Hematoxylin	
16.	Whi	ch of the following is an example Mayers Hematoxylin	e of Ir (B)	on Hematoxylin ? Harris's Hematoxylin	
15.	Gau (A)	ge of needle ideal for blood trans 21 G (B) 25 G	sfusio	n generally is: (C) 16 G (D	) 10 G
	(D)	Detect antibodies to specific vir	-	0.1	
	(C)	Reduce window period to detec	t viru	s earlier than other ava	
	(A) (B)	Identify donors with late stage Confirm the presence of anti H			ECTED DONORS
14.		leic acid Amplification Test for F			sting protocols to:

<b>25.</b>		noy's fixative do not contain			
	(A)	95% Ethanol	(B)	Glacial acetic acid	
	(C)	Chloroform	(D)	Formaldehyde	
26.	Tiss	ue of choice for routine karyoty	ping :		
		Blood (B) Bone ma		(C) Skin (D) Am	niotic fluid
	, ,	• •		. ,	
<b>27</b> .	Anti	coagulant of choice for chromos	ome a	alysis like Karyotyping:	
	(A)	EDTA	(B)	Heparin	
	(C)	Sodium Citrate	(D)	None of the above	
28.		ch type of chromosome abnormosome?	mality	s characteristically seen in	Philadelphia
		Inversion	(B)	Deletion	
		Translocation	(D)	None of the above	
	(0)	114110100401011	(2)	Trong of the doors	
29.	Whi	ch is the standard/Routine band	ling te	nnique used in chromosome st	tudies ?
	(A)	C-Banding (B) R-Bandin	ng	(C) Q-Banding (D) G-I	Banding
<b>30.</b>		ch of the following techniqu	es ca	be used in diagnosing has	ematological
		gnancy?	( <b>D</b> )	77	
		Flow cytometry	(B)	Karyotypic analysis	
	(C)	PCR-based assays	(D)	All the above	
31.	Ster	ilisation techniques are first de	velope	by:	
	(A)	Paul Ehrlich	(B)	Edward Jennar	
	(C)	Robert Koch	(D)	Louis Pasteur	
<b>32.</b>		microscope which is used to vis		_	unstained :
	(A)	-		Dark field microscope	
	(C)	Fluorescent microscope	(D)	Scanning electron microscope	
33.	Holo	ling period of Laboratory Autoc	lave :		
		160° for 1 hour	(B)	100° for 20 minutes	
	(C)	121° for 15 minutes, 15 lbs			
٥.,	****				
34.		ch of the following statement ratory?	18 <b>fa</b>	se about receiving clinical s	specimens in
	(A)	Laboratory staff should be in a	gown a	d glove	
	(B)	Laboratory staff should check w	vhethe	samples are received in leak pr	roof container
	(C)	Unlabelled specimens and wro	ongly l	belled specimens can be accep	oted
	(D)	If sample is not sufficient for p	roces	ng, the staff can ask for a repe	eat sample

35.		ch statement is false regarding i		ng radiation ?
	(A)	It has got a low penetrating po		
	(B)	It is termed as cold sterilisation		DATA
	(C)			
	(D)	Used for sterilising plastic item	ıs, sy	ringes and catheters
36.	All o	of the following tests are used fo	r dete	ecting efficacy of disinfectants except:
	(A)	Chick Martin test	(B)	In-use test
	(C)	Kelsey-sykes test	(D)	Serenys test
<b>37</b> .	Isos	pora belong to which Sub-phylun	n ?	
	(A)	Sub-phylum Sporozoa	(B)	Sub-phylum Microspora
	(C)	Sub-phylum Ciliophora	(D)	Sub-phylum Sarcomastigophora
38.	All 1	the following helminthic eggs are	not	bile stained except:
	(A)	Ancylostoma duodenale	(B)	Enterobious vermicularis
	(C)	-	, ,	Necator americanus
39.	NIH	swabs are used for collecting sp	ecime	ens in suspected cases of:
	(A)	Trichuriasis	(B)	Ancylostomiasis
	(C)	Ascariasis	(D)	Enterobiasis
40.	Crvi	otosporidia oocysts are better sta	ined	and visualized by :
	(A)			Modified acid fast staining
	(C)		(D)	H and E stain
41.	Whi	ch of the following is included in	the 1	laboratory diagnosis of Filariasis ?
	(A)			
	(B)		•	
	(C)	Imaging methods and molecula	r me	thods
	(D)	All of the above		
42.	The	major complication of Falciparui	n ma	laria :
	(A)		(B)	
	(C)	Algid malaria	(D)	All of the above
43.	Whi	ch of the following statement abo	out ba	acterial capsule is <b>incorrect</b> ?
	(A)	Streptococcus pneumoniae has	polys	accharide capsule
	(B)	Protects bacteria by inhibiting		
	(C)	Can be demonstrated by negative	ve sta	aining in wet films by India ink method
	(D)	Helps in bacterial motility		

44.		ch is the surrog A gene in <i>Staph</i>	_						ance med	liated by
	(A)	Cefpodoxime	(B) (	Cefoxitin		(C)	Optochin	(D)	Bacitra	cin
<b>45</b> .	All a	are correct about	t autocl	ave excep	t:					
	(A)	Used to steriliz	ze surgi	cal instru	ıment	ts in l	nospital			
	(B)	Sterilizing con 15 min at 15 pc			ly us	sed ar	re temperat	ure expo	sure of 1	21°C for
	(C)	Spores of Bacil			s use	d as	sterilization	control		
	(D)	Gravity displac								
46.	Whi	ch of the following	ng is a	selective	medi	um fo	r Salmonella	a Typhi ?		
	(A)	Xylose lysine d	leoxych	olate agai	r(B)	Alka	line bile sal	t agar		
	(C)	Mannitol salt a	agar		(D)	Thag	yer Martin r	nedium		
47.	Whi	ch is <b>not corre</b> c	et regar	ding oxid	ase te	est?				
	(A)	Used to identif	y bacte	ria which	prod	luce t	he enzyme o	ytochrom	e oxidase	Э
	(B)	The test is per	formed	on bacter	rial co	olonie	s from MacC	Conkey's a	agar	
	(C)	Positive test is	shown	by purple	e colo	or dev	eloping with	in 10 sec	onds	
	(D)	Reagent used i	is 1% to	etra-meth	yl-p-	pheny	lenediamine	dihydro	chloride	
48.		ch of the followir	ng can b	e used to	stain	n meta	chromatic g	ranules o	f Coryneb	acterium
	(A)	Albert's stain			(B)	Neis	ser's stain			
	(C)	Loeffler's meth	ylene b	lue	(D)	All	of the above			
49.	Whi	ch of the followi	ng cann	ot be cult	tivate	ed in a	artificial cult	ture medi	a ?	
	(A)	$Cryptococcus\ n$	eoformo	ans	(B)	Rhir	nosporidium	see bri		
	(C)	Blastomyces de	ermatiti	dis	(D)	Spor	rothrix schen	ickii		
<b>50.</b>	All a	are true about S	abourau	ıd's dextr	ose a	gar ex	ccept:			
	(A)	pH of the medi	um is 8	.6						
	(B)	Growth of sapa	rophytic	fungi is	preve	ented	by adding c	yclohexin	nide	
	(C)	Constituents as	re pepte	one, dexti	rose a	and a	gar			
	(D)	Used for the is	solation	of pathog	genic	and r	on-pathogen	nic fungi		
<b>51.</b>	Whi	ch of the followi	ng is/ar	e <b>true</b> of	dimo	rphic	fungi ?			
	(A)	Occurs as yeas	t form i	n tissues	at 37	$^{\circ}\mathrm{C}$				
	(B)	Occurs as myce	elial for	m in cultı	ures a	at 25°	C			
	(C)	Sporothrix sche	enckii is	s a dimor <sub>l</sub>	phic f	fungu	3			
	(D)	All of the above	e							

- **52.** Candida albicans shows the following characteristics except: (A) Is a true yeast (B) Demonstration of pseudohyphal forms in tissue indicates invasion (C) Rapid identification is by its ability to form germ tubes at 37°C in 2 hrs (D) Oral thrush is a form of mucosal candidiasis Which of the following fungi causing human disease is **not** a common laboratory **53.** contaminant? (A) Penicillium spp (B) Cryptococcus spp (C) Aspergillus spp (D) Mucor spp Which of the following statement regarding dermatophytes is **not correct**? (A) Are hyaline filamentous fungi (B) Infect keratinised tissues (D) Infect skin, hair and nails (C) Sensitive to cycloheximide An example of continuous cell line for virus isolation is: (A) Human carcinoma of cervix cell line (B) Human amnion cell culture (C) Human embryonic lung cell strain (D) Rhesus embryo cell strain In a patient with chronic hepatitis B virus infection which serological marker indicates high infectivity? (A) Hepatitis B surface antigen (B) Hepatitis B (Precore) antigen (C) Hepatitis B surface antibody (D) Hepatitis B core antibody All of the following are true of viral inclusion bodies except: They are aggregates of viruses inside an infected cell They are situated only in the cytoplasm of infected cells (C) Giemsa stain is used to demonstrate inclusion bodies (D) Negri bodies are inclusion bodies seen in brain tissue in rabies virus infection Which of the following is **not correct** regarding biosafety cabinets?
  - (A) Biosafety cabinets are of 2 classes
  - (B) They provide a barrier between the lab personnel and infective material during processing
  - (C) Procedures like mixing or ultrasonic disruption of specimens of pathogens that generate aerosols is done in class I biosafety cabinet
  - (D) Uninoculated cell cultures for virus isolation are processed in class II biosafety cabinet

- **59.** Which of the following statements regarding prions is **incorrect**?
  - (A) Infectious proteinaeceous agents which do not have nucleic acid
  - (B) They can be inactivated by boiling at 100°C
  - (C) Kuru is human disease caused by prions
  - (D) Instruments contaminated with prion containing materials can be disinfected with 1N sodium hydroxide
- **60.** All of the following are true of NIPAH virus except:
  - (A) Fruit bats of the Pteropodidae Family are its natural host
  - (B) It is an enveloped RNA virus and belongs to Paramyxoviridae family
  - (C) It is a Biosafety level 2 pathogen
  - (D) Diagnosis in the early phase of infection is by real time PCR of throat specimens
- **61.** Among the following methods, identify the **correct** way of cleaning laboratory glassware.
  - (A) Soap water  $\rightarrow$  Tap water  $\rightarrow$  Paper towel drying
  - (B) Soap water  $\rightarrow$  Tap water  $\rightarrow$  Air drying
  - (C) Soap water  $\rightarrow$  Tap water  $\rightarrow$  Acetone wash  $\rightarrow$  Air drying
  - (D) Soap water  $\rightarrow$  Tap water  $\rightarrow$  Deionized water  $\rightarrow$  Air drying
- **62.** Identify the factor that **is not** a contributor in loss of pipetting accuracy.
  - (A) Temperature of fluid to be pipetted.
  - (B) Viscosity of fluid to be pipetted.
  - (C) Fluid volume 50% above minimum volume.
  - (D) Angle of pipette during aspiration.
- **63.** Out of the listed safety protocols, identify the protocol **not** adhering to proper laboratory safety standard.
  - (A) Splash goggles should always be worn inside the laboratory.
  - (B) Procedures resulting in hazardous fumes should be performed in a flume hood.
  - (C) Material safety data sheet (MSDS) of all chemicals used must be displayed in the laboratory.
  - (D) Used needles and blades should be safely disposed by wrapping in paper towels.
- **64.** In a chemical laboratory, identify the protocol **not** adhering to proper chemical storage standards.
  - (A) Methanol should be stored in a flame safety cabinet.
  - (B) Oxidizers and flammables should be stored in same cabinet for easy access.
  - (C) Chemicals should not be stored purely based on alphabetic order.
  - (D) Acids and bases should be stored separately or with sufficient distance.
- 65. Highest purity of water is indicated by which conductivity?
  - (A)  $18.2 \text{ M}\Omega \text{ cm}^{-1}$  (B)  $15.0 \text{ M}\Omega \text{ cm}^{-1}$  (C)  $17.2 \text{ M}\Omega \text{ cm}^{-1}$  (D)  $12 \text{ M}\Omega \text{ cm}^{-1}$

66.	Identify the SI unit of temperature.  (A) Fahrenheit (B) Celsius (C) Kelvin (D) All of these	е
67.	Molarity is defined as of a substance one litre of distilled v  (A) Molecular weight, Dissolved in  (B) Equivalent weight, Dissolved and made upto  (C) Gram molecular weight, Dissolved in  (D) Gram molecular weight, Dissolved and made upto	vater.
68.	Safe disposal of biological specimen should be ensured by which of the following  (A) Specimen is disposed by burning in open air.  (B) Specimen should be placed in an autoclave bag and autoclaved for 1 hour.  (C) Specimen is washed down the sink with any disinfectant solution.  (D) Specimen is to be stored in sealed bag till it is safe for disposal.	?
69.	Identify the most appropriate anticoagulant for use in blood banking.  (A) Citrate Phosphate Dextrose/Acid Citrate Dextrose  (B) Ethylene Diamine Tetraacetic Acid (EDTA)  (C) Heparin Sulphate  (D) Trisodium Citrate	
70.	Urine specimen preservation is achieved with which of these chemicals?  (A) Sodium molybdate (B) Potassium isocitrate (C) Heparin+EDTA (D) Boric acid	
71.	Flame photometer is based on characteristic emission by metals when	_·
72.	Radioactive emission of a liquid specimen can be accurately quantified by which of following methods?  (A) Geiger muller counter (B) Thermoluminous badges (C) Autoradiography film (D) Scintillation counter	of the
73.	From the buffer systems listed below, identify the buffer most important in maintablood pH.  (A) Carbonic acid-bicarbonate buffer  (B) Haemoglobin buffer  (C) Phosphate buffer  (D) Ammonium buffer	iining

74.	Tyndall effect is displayed by		when a beam of light is passed through it.
	(A) Buffers	(B)	Colloids
	(C) Suspensions	(D)	Saturated salt solutions
<b>75.</b>	In column chromatography, isocratical (A) Solvent system under high p		

- 76. Separation of amino acids by Silica gel thin layer chromatography is based on:
  - (A) Molecular size of amino acids

(B) Solvent system with varying polarity(C) Solvent system with negative pressure(D) Solvent system with constant polarity

- (B) Interaction of amino group of amino acids with stationary phase
- (C) Interaction of R-group of amino acids with stationary phase
- (D) Molecular charge of individual amino acids
- 77. Among the following, identify a protocol **not** complying with good practices in a clinical biochemistry laboratory.
  - (A) Protocols can be amended by the personnel at their discretion.
  - (B) A record of all approved protocols must be maintained in the laboratory.
  - (C) A record of the qualification of all personnel involved in the laboratory is maintained.
  - (D) Periodic auditing of the facility must be carried out.
- 78. What is **not** an advantage of an autoanalyzer in a clinical laboratory?
  - (A) More accurate than manual methods.
  - (B) Higher sample turnover.
  - (C) Versatility in handling multiple assays simultaneously.
  - (D) None of these.
- 79. Identify the main benefit of adopting laboratory informatics in a clinical laboratory.
  - (A) Job creation for information technologists.
  - (B) Makes daily laboratory management less user friendly.
  - (C) Databases help in result recording, retrieval, and analysis.
  - (D) Open to data manipulation.
- 80. Analytical variables can arise from which of the following factors?
  - (A) Relaxed quality control of equipments involved.
  - (B) Poor standard operating procedures.
  - (C) Lack of rigorous controls in sample collection.
  - (D) All of these.

81.	The specific site of action of trypsin is:  (A) Peptide bond formed by Carboxyl groups of basic amino acids.  (B) Peptide bond formed by Carboxyl groups of aromatic amino acids.  (C) Peptide bond formed by Carboxyl groups of hydrophobic amino acids.  (D) Peptide bond formed by Carboxyl groups of acidic amino acids.
82.	Soret band is observed at : (A) 300 nm (B) 500 nm (C) 600 nm (D) 400 nm
83.	Enzyme defect in acute intermittent porphyria :  (A) Heme synthase (B) PBG deaminase (C) ALA synthase (D) Coproporphyrinogen oxidase
84.	Which among the following enzymes is an indicator of vitamin $B_1$ deficiency?  (A) Erythrocyte transketolase  (B) Erythrocyte glutathione reductase  (C) Erythrocyte glutathione peroxidase  (D) Erythrocyte lactate dehydrogenase
85.	Which among the following is true for competitive enzyme inhibition?  (A) $K_m$ is constant, $V_{max}$ decreases  (B) $K_m$ decreases, $V_{max}$ is constant  (C) $K_m$ increases, $V_{max}$ decreases  (D) $K_m$ increases, $V_{max}$ is constant
86.	The De Ritis ratio > 2 is seen in :  (A) Obstructive jaundice (B) Toxin induced hepatitis (C) Alcoholic hepatitis (D) Acute viral hepatitis
87.	The isoenzyme of alkaline phosphatase that is heat stable is found in :  (A) Liver (B) Intestine (C) Bone (D) Placenta
88.	Low TSH levels with low radioactive iodine uptake is characteristic of:  (A) Graves' disease (B) Hashimoto's disease (C) Toxic nodular goitre (D) Postpartum thyroiditis
89.	Which of the following is <b>not true</b> about Taq polymerase used in PCR ?  (A) 3'-5' polymerase activity (B) 5'-3' polymerase activity  (C) Thermostable (D) 5'-3' exonuclease activity
90.	Genetic code is all except :  (A) Degenerate (B) Non-universal (C) Triplet (D) Unambiguous
91.	About plasmids all are true except:  (A) Used as vectors for recombinant DNA technology  (B) They are outside bacterial chromosomes  (C) Carry antibiotic resistance genes  (D) They replicate with bacterial DNA replication

<b>92</b> .	Rega	Regarding urinary 5-HIAA which among the following is true?								
	(A) Acidic urine preservatives should be used									
	<ul> <li>(B) Spot urine sample cannot be used</li> <li>(C) NaOH should be added to urine before storing</li> <li>(D) The values are not affected by diet</li> </ul>									
93.	Regarding CSF glucose which is <b>correct</b> ?									
	(A)									
	<ul> <li>(B) CSF glucose is measured to assess diabetes mellitus</li> <li>(C) CSF/Blood glucose ratio is decreased in hemochromatosis</li> </ul>									
	(D) Plasma sample for glucose estimation should be taken at the same as lum									
	puncture									
94.		n pentagastrin test, high acid secretion is observed in:								
	(A) (C)	Pernicious aner Cancer of stoma			(B) (D)		syndrome tric atrophy			
	(0)	Cancer of stoma	acii		(D)	Gas	tric atrophy			
<b>95</b> .	Stag	ghorn urinary calculus is formed by:								
	(A)	Phosphate ston			(B)	-	teine stones			
	(C)	Uric acid stones	8		(D)	Oxa	late stones			
96.	In SDS PAGE electrophoresis:									
	(A)	_								
	(B)	(B) The proteins move towards cathode (C) Even multimeric proteins produce single sharp band								
	(C)									
	(D)	pH of buffer is 6	5.8							
97.		In which type of ELISA is the absorbance inversely related with antigen								
		oncentration?								
	(A) (C)	Direct ELISA Competitive EL	IGA		(B) (D)		rect ELISA			
	(0)	Competitive El	лон	5A (D)			Sandwich ELISA			
98.	The	immunoglobulin	incre	ased in sec	conda	ry re	sponse is :			
	(A)	IgM	(B)	IgG		(C)	IgA	(D)	IgE	
99.	99. The cardiac biomarker that can be used to diagnose heart failure:									
99.	(A) CKMB (B) Total CK								LDH	
	(11)		(1)	13001 311		(0)		(2)		
<b>100</b> .		The confirmatory method for identification of drugs of abuse is:								
		(A) ELISA (B) Gas chromatography/mass spectrometry							s spectrometry	
	(C)	Nephelometry			(D)	Ion	selective electr	ode		
	- o O o -									

## SPACE FOR ROUGH WORK

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